

Appl. No. 10/811,780
Amdt. dated July 27, 2006
Reply to Office Action of April 7, 2006

Atty. Ref. 81754.0127
Customer No. 26021

Amendments to the Drawings

Four replacement sheets of drawings are attached. Two of the replacement sheets include changes to Figs. 1 and 4 and replace the original drawing sheets including Figs. 1 and 4. Figs. 1 and 4 are re-designated as Figs. 1A and 4A. Annotated sheets showing changes accompany these replacement sheets.

The other two replacement sheets are new sheets and set forth new Figs. 1B and 4B.

Attachments: Replacement Sheets (4)
 Annotated Sheets Showing Changes (2)

Remarks/Arguments

Reconsideration of this application is requested.

Request for Continued Examination/Extension of Time

Requests for continued examination and a one month extension of the period for response to the final Office Action mailed on April 7, 2006 are enclosed. The extended period for response expires on August 7, 2006.

Drawings

The Action objects to the drawings under 37 CFR 1.83(a) and asserts that they fail to show the booster circuit recited in the claims and described in the specification.

As is clearly described in applicant's specification (see paragraphs [0019]-[0022] and [0029]-[0031], for example), the contactless-tag electronic circuit 11 of Fig. 1 (and Fig. 4) includes a changeover switch 15 that switches circuit 11 between two states: a resonance circuit-formed state including an antenna coil L and a rectification circuit 17, which is formed when contacts 15c1 and 15c2 of antenna coil L connect to a first set of connection terminals 15-1a and 15-1b; and a booster circuit-formed state including antenna coil L and a charge pump 21 including a transistor FET, which is formed when contacts 15c1 and 15c2 of antenna coil L changeover to a second set of connection terminals 15-2a and 15-2b.

Thus the booster circuit is a state of the circuit of Fig. 1 (and Fig. 4) wherein antenna coil contact terminals 15c1 and 15c2 connect to the second set of connection terminals 15-2a and 15-2b to couple charge pump 21 to antenna coil L. All of these elements are clearly shown in Fig. 1, so applicant respectfully traverses the objection that the booster circuit is not shown in the drawings.

Nevertheless, in order to clarify matters, the application is amended to include new Figs. 1B and 4B. Figs. 1B and 4B are the same as Figs. 1 and 4, with the exception that contacts 15c1 and 15c2 are connected to second connection terminals 15-2a and 15-2b, rather than first connection terminals 15-1a and 15-1b, as in Figs. 1 and 4. Thus, new Figs. 1B and 4B explicitly illustrate the connected

state where circuit 11 includes the booster circuit. No new matter is added, since new Figs. 1B and 4B merely illustrate that which is described in multiple locations in the specification. For consistency with the new Figures, Figs. 1 and 4 are redesignated as Figs. 1A and 4A, and the specification is amended as necessary to make reference to the new Figures.

Claim Status

Claims 1-20 were presented. Claims 1-7, 10, 13, 14 and 18 are amended. New claim 21 is added. Claims 9 and 11, 12 and 20 are canceled, without prejudice. Thus, claims 1-8, 10, 13-19 and 21 are now pending.

Claim Rejections – 35 USC 103

Claims 1-2, 8-12 and 18-20 are rejected under 35 USC 103(a) as obvious over Miyamoto (GB 2292866) and as obvious over Iiyama (US 6,489,883).

In response, independent claim 1 is amended to better define and clarify the invention and to eliminate any possible correspondence to Miyamoto and Iiyama. In particular, claim 1, as amended, recites:

a resonance circuit including the antenna coil and the rectification circuit being formed during a first period in which the contact connects to the first connection terminal through the changeover switch; and

a booster circuit having a function of a charge pump including a transistor and the antenna coil being formed during a second period in which the contact connects to the second connection terminal through the changeover switch.

Neither Miyamoto nor Iiyama teaches or suggests such a structure. In particular, the antenna coils of these references cannot be changed over from a resonance circuit into a booster circuit having a function of a charge pump including a transistor. Since Miyamoto and Iiyama do not disclose or suggest each and every feature of claim 1, the rejections under 35 USC 103(a) should be withdrawn.

Claims 2, 8 and 10 (as amended) depend from claim 1 and are similarly allowable. Claims 11, 12 and 20 are canceled, without prejudice, rendering their

Appl. No. 10/811,780
Amdt. dated July 27, 2006
Reply to Office Action of April 7, 2006

Atty. Ref. 81754.0127
Customer No. 26021

rejections moot. Claims 18 and 19 are amended to depend from allowable claim 13, as discussed below.

Allowable Subject Matter

The indication of allowable subject matter in claims 3-7 and 13-17 is noted and appreciated. Claims 3-7 are amended for consistency with the amendments to independent claim 1, discussed above, and to better define the invention. Claims 13 and 14, which each depends directly from base claim 11, are amended into independent form to include all limitations of base claim 11. Claims 15-17 depend from claims 13 and 14. Claim 18 is amended to depend from claim 13, and claim 19 depends from claim 18. Accordingly, claims 13-19 are now in condition for allowance.

New Claim

New claim 21 depends from claim 5 and is added to better define the invention.

Conclusion

This application is now believed to be in condition for allowance. The Examiner is invited to telephone the undersigned to resolve any issues that remain after entry of this amendment. Any fees due with this response may be charged to our Deposit Account No. 50-1314.

Respectfully submitted,
HOGAN & HARTSON L.L.P.

Date: July 27, 2006

By: 
Troy M. Schmelzer
Registration No. 36,667
Attorney for Applicant(s)

500 South Grand Avenue, Suite 1900
Los Angeles, California 90071
Phone: 213-337-6700
Fax: 213-337-6701

Fig. 1 "A"

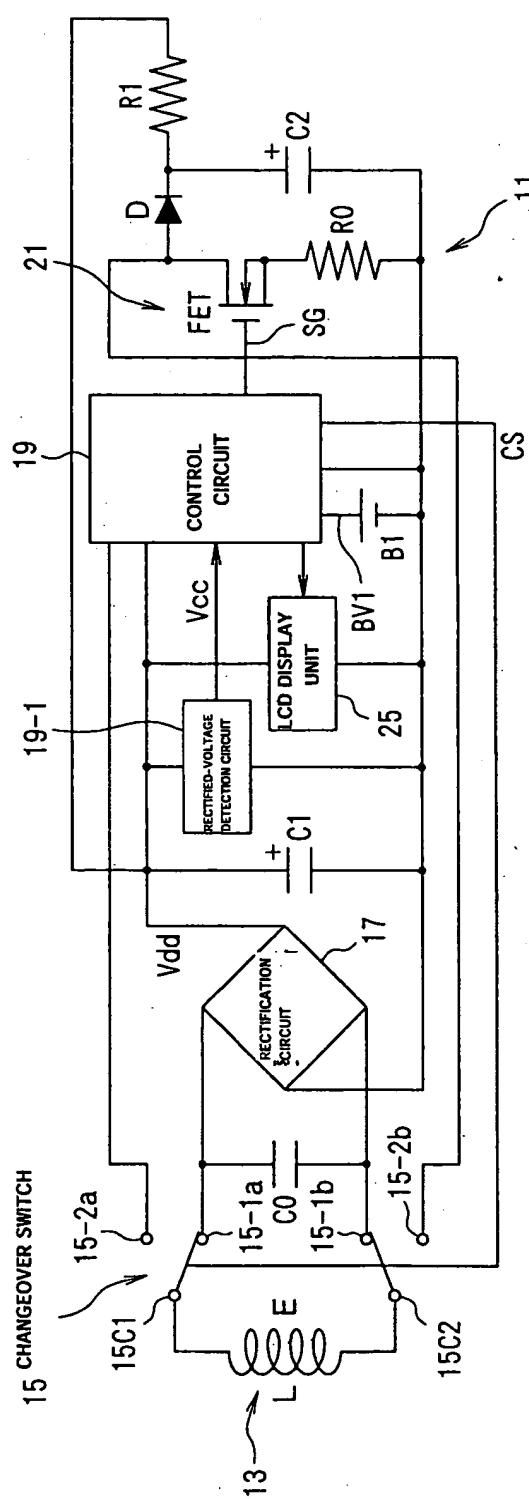


Fig. 4 "A"

